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# ENTERED

OIIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/090,090B

DATE: 12/10/2002

TIME: 08:13:37

Input Set : A:\20084yca.txt

Output Set: N:\CRF4\12102002\J090090B.raw

4 <110> APPLICANT: Chen, Fang  
 6 <120> TITLE OF INVENTION: DNA MOLECULES ENCODING HUMAN NUCLEAR  
 7 RECEPTOR PROTEINS, nNR-7 AND nNR7-1  
 10 <130> FILE REFERENCE: 20084YCA  
 12 <140> CURRENT APPLICATION NUMBER: 10/090090B  
 C--> 13 <141> CURRENT FILING DATE: 2002-11-19  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US98/26364  
 16 <151> PRIOR FILING DATE: 1998-12-11  
 18 <150> PRIOR APPLICATION NUMBER: 09/209,069  
 19 <151> PRIOR FILING DATE: 1998-12-10  
 21 <150> PRIOR APPLICATION NUMBER: 60/104,251  
 22 <151> PRIOR FILING DATE: 1998-10-14  
 24 <150> PRIOR APPLICATION NUMBER: 60/069,401  
 25 <151> PRIOR FILING DATE: 1997-12-12  
 27 <160> NUMBER OF SEQ ID NOS: 24  
 29 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 31 <210> SEQ ID NO: 1  
 32 <211> LENGTH: 3093  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: Homo sapien (human)  
 36 <400> SEQUENCE: 1

37	tacgccaaagc	tcgaaattaa	ccctcactaa	agggaaacaaa	agctggagct	ccaccgcggt	60
38	ggcgcccgct	ctagaactag	tggatccccc	gggctgcagg	aattcgaatt	ctcataacct	120
39	atgactagga	cggaagagg	aagcactgcc	tttacttcag	tgggaatctc	ggcctcagcc	180
40	tgcaagccaa	gtgttcacag	tgagaaaagc	aagagaataa	gctaatactc	ctgtcctgaa	240
41	caaggcagcg	gtccttgggt	aaagctactc	cttgatcgat	cctttgcacc	ggattgttca	300
42	aagtggaccc	caggggagaa	gtcggagcaa	agaacttacc	accaagcagt	ccaagaggcc	360
43	cagaagcaaa	cctggagggtg	agacccaaag	aaagctggaa	ccatgctgac	tttgtacact	420
44	gtgaggacac	agagtctgtt	cctggaaagc	ccagtgtcaa	cgcagatgag	gaagtcggag	480
45	gtccccaaat	ctgccgtgta	tgtggggaca	aggccactgg	ctatcacttc	aatgtcatga	540
46	catgtgaagg	atgcaagggc	tttttcagga	gggccatgaa	acgcaacgcc	cggctgaggt	600
47	gccccttccg	gaagggcgcc	tgcgagatca	cccggaagac	ccggcgacag	tgccaggcct	660
48	gccgcctgcg	caagtgcctg	gagagcggca	tgaagaagga	gatgatcatg	tccgacgagg	720
49	ccgtggagga	gaggcgggcc	ttgatcaagc	ggaagaaaag	tgaacggaca	gggactcagc	780
50	cactgggagt	gcaggggctg	acagaggagc	agcggatgat	gatcagggag	ctgatggacg	840
51	ctcagatgaa	aacctttgac	actaccttct	cccatttcaa	gaatttccgg	ctgccagggg	900
52	tgcttagcag	tggctgcgag	ttgccagagt	ctctgcaggc	cccatcgagg	gaagaagctg	960
53	ccaagtggag	ccagggtccg	aaagatctgt	gctctttgaa	ggtctctctg	cagctgcggg	1020
54	gggaggatgg	cagtgtcttg	aactacaaac	ccccagccga	cagtggcggg	aaagagatct	1080
55	tctccctgct	gccccacatg	gctgacatgt	caacctacat	gttcaaaggc	atcatcagct	1140
56	ttgccaaagt	catctcctac	ttcagggaact	tgcccatcga	ggaccagatc	tccctgctga	1200
57	agggggccgc	tttcgagctg	tgtcaactga	gattcaacac	agtgttcaac	gcggagactg	1260
58	gaacctggga	gtgtggccg	ctgtcctact	gcttgaaga	cactgcagggt	ggcttccagc	1320

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59 aacttctact ggagcccatg ctgaaattcc actacatgct gaagaagctg cagctgcatg 1380
60 aggaggagta tgtgtgatg caggccatct cctctttctc cccagaccgc ccagggtgtgc 1440
61 tgcagcaccg cgtggtggac cagctgcagg agcaattcgc cttactctg aagtcctaca 1500
62 ttgaatgcaa tcggccccag cctgtctata ggttcttgtt cctgaagatc atggctatgc 1560
63 tcaccgagct ccgcagcatc aatgtctcgc acaccacgcg gctgtctgcg atccaggaca 1620
64 tacacccctt tgctacgccc ctcatgcagg agttgttcgg catcacaggt agctgagcgg 1680
65 ctgcccttgg gtgacacctc cgagaggcag ccagaccag agccctctga gccgccactc 1740
66 ccgggccaag acagatggac actgccaaga gccgacaatg cctgtctggc ctgtctccct 1800
67 aggggaattcc tgctatgaca gctggctagc attcctcagg aaggacatgg gtgcccccca 1860
68 cccccagttc agtctgtagg gagtgaagcc acagattctt acgtggagag tgcactgacc 1920
69 tgtaggtcag gaccatcaga gaggcaaggt tgccctttcc ttttaaaagg ccctgtggtc 1980
70 tggggagaaa tccctcagat cccactaaag tgtcaagggtg tgggaaggac caagcgacca 2040
71 aggataggcc atctggggtc tatgccaca taccacggtt tgttcgcttc ctgagtcttt 2100
72 tcattgctac ctctaatagt cctgtctccc acttcccact cgttcccctc ctcttccgag 2160
73 ctgctttgtg ggctccaggc ctgtactcat cggcagggtgc atgagtatct gtgggagtcc 2220
74 tctagagaga tgagaagcca ggaggcctgc accaaatgtc agaagcttgg catgacctca 2280
75 ttccggccac atcattctgt gtctctgcat ccatttgaac acattattaa gcaccgataa 2340
76 taggtagcct gctgtggggt atacagcatt gactcagata tagatcctga gctcacagag 2400
77 tttatagtta aaaaaacaaa cagaaacaca aacaatttgg atcaaaagga gaaatgataa 2460
78 gtgacaaaag cagcacaagg aatttccctg tgtggatgct gagctgtgat ggcgggcact 2520
79 gggtagccaa gtgaagggtc ccgaggacat gagtctgtag gagcaagggc acaaactgca 2580
80 gctgtgagtg cgtgtgtgtg atttggtgta ggtaggctctg tttgccactt gatggggcct 2640
81 gggtttgttc ctggggctgg aatgctgggt atgctctgtg acaaggctac gctgacaatc 2700
82 agttaaacac accggagaag aaccattttac atgcacctta tatttctgtg tacacatcta 2760
83 ttctcaaagc taaagggtat gaaagtgcct gccttgttta tagccacttg tgagtaaaaa 2820
84 tttttttgca ttttcacaaa ttatacttta tataaggcat tccacaccta agaactagtt 2880
85 ttgggaaatg tagccctggg tttaatgtca aatcaaggca aaaggaatta aataatgtac 2940
86 ttttggctag aggggtaaac ttttttggcc tttttctggg gaaaataatg tgggggtgtg 3000
87 ggaattcgaa ttcgatatca agcttatcga taccgtcgac ctcgaggggg ggcccgtac 3060
88 ccaattcgcc ctatagttag tcgtattaca att 3093

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90 &lt;210&gt; SEQ ID NO: 2

91 &lt;211&gt; LENGTH: 466

92 &lt;212&gt; TYPE: PRT

93 &lt;213&gt; ORGANISM: Homo sapien (human)

95 &lt;400&gt; SEQUENCE: 2

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96 Ser Ile Leu Cys Thr Gly Leu Phe Lys Val Asp Pro Arg Gly Glu Val
97 1 5 10 15
98 Gly Ala Lys Asn Leu Pro Pro Ser Ser Pro Arg Gly Pro Glu Ala Asn
99 20 25 30
100 Leu Glu Val Arg Pro Lys Glu Ser Trp Asn His Ala Asp Phe Val His
101 35 40 45
102 Cys Glu Asp Thr Glu Ser Val Pro Gly Lys Pro Ser Val Asn Ala Asp
103 50 55 60
104 Glu Glu Val Gly Gly Pro Gln Ile Cys Arg Val Cys Gly Asp Lys Ala
105 65 70 75 80
106 Thr Gly Tyr His Phe Asn Val Met Thr Cys Glu Gly Cys Lys Gly Phe
107 85 90 95
108 Phe Arg Arg Ala Met Lys Arg Asn Ala Arg Leu Arg Cys Pro Phe Arg
109 100 105 110

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110 Lys Gly Ala Cys Glu Ile Thr Arg Lys Thr Arg Arg Gln Cys Gln Ala
111      115      120      125
112 Cys Arg Leu Arg Lys Cys Leu Glu Ser Gly Met Lys Lys Glu Met Ile
113      130      135      140
114 Met Ser Asp Glu Ala Val Glu Glu Arg Arg Ala Leu Ile Lys Arg Lys
115 145      150      155      160
116 Lys Ser Glu Arg Thr Gly Thr Gln Pro Leu Gly Val Gln Gly Leu Thr
117      165      170      175
118 Glu Glu Gln Arg Met Met Ile Arg Glu Leu Met Asp Ala Gln Met Lys
119      180      185      190
120 Thr Phe Asp Thr Thr Phe Ser His Phe Lys Asn Phe Arg Leu Pro Gly
121      195      200      205
122 Val Leu Ser Ser Gly Cys Glu Leu Pro Glu Ser Leu Gln Ala Pro Ser
123      210      215      220
124 Arg Glu Glu Ala Ala Lys Trp Ser Gln Val Arg Lys Asp Leu Cys Ser
125 225      230      235      240
126 Leu Lys Val Ser Leu Gln Leu Arg Gly Glu Asp Gly Ser Val Trp Asn
127      245      250      255
128 Tyr Lys Pro Pro Ala Asp Ser Gly Gly Lys Glu Ile Phe Ser Leu Leu
129      260      265      270
130 Pro His Met Ala Asp Met Ser Thr Tyr Met Phe Lys Gly Ile Ile Ser
131      275      280      285
132 Phe Ala Lys Val Ile Ser Tyr Phe Arg Asp Leu Pro Ile Glu Asp Gln
133      290      295      300
134 Ile Ser Leu Leu Lys Gly Ala Ala Phe Glu Leu Cys Gln Leu Arg Phe
135 305      310      315      320
136 Asn Thr Val Phe Asn Ala Glu Thr Gly Thr Trp Glu Cys Gly Arg Leu
137      325      330      335
138 Ser Tyr Cys Leu Glu Asp Thr Ala Gly Gly Phe Gln Gln Leu Leu Leu
139      340      345      350
140 Glu Pro Met Leu Lys Phe His Tyr Met Leu Lys Lys Leu Gln Leu His
141      355      360      365
142 Glu Glu Glu Tyr Val Leu Met Gln Ala Ile Ser Leu Phe Ser Pro Asp
143      370      375      380
144 Arg Pro Gly Val Leu Gln His Arg Val Val Asp Gln Leu Gln Glu Gln
145 385      390      395      400
146 Phe Ala Ile Thr Leu Lys Ser Tyr Ile Glu Cys Asn Arg Pro Gln Pro
147      405      410      415
148 Ala His Arg Phe Leu Phe Leu Lys Ile Met Ala Met Leu Thr Glu Leu
149      420      425      430
150 Arg Ser Ile Asn Ala Gln His Thr Gln Arg Leu Leu Arg Ile Gln Asp
151      435      440      445
152 Ile His Pro Phe Ala Thr Pro Leu Met Gln Glu Leu Phe Gly Ile Thr
153      450      455      460
154 Gly Ser
155 465
157 <210> SEQ ID NO: 3
158 <211> LENGTH: 18
159 <212> TYPE: DNA

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Input Set : A:\20084yca.txt

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160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Oligonucleotide
165 <400> SEQUENCE: 3
166 cttcaatgtc atgacatg 18
168 <210> SEQ ID NO: 4
169 <211> LENGTH: 20
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Oligonucleotide
176 <400> SEQUENCE: 4
177 ccaaattctgc cgtgtatgtg 20
179 <210> SEQ ID NO: 5
180 <211> LENGTH: 19
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Oligonucleotide
187 <400> SEQUENCE: 5
188 gtcagtgcac tctccacgt 19
190 <210> SEQ ID NO: 6
191 <211> LENGTH: 20
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Oligonucleotide
198 <400> SEQUENCE: 6
199 tgcagctggt ccaccacgcg 20
201 <210> SEQ ID NO: 7
202 <211> LENGTH: 19
203 <212> TYPE: DNA
204 <213> ORGANISM: Artificial Sequence
206 <220> FEATURE:
207 <223> OTHER INFORMATION: Oligonucleotide
209 <400> SEQUENCE: 7
210 gggatatgctc tgtgacaag 19
212 <210> SEQ ID NO: 8
213 <211> LENGTH: 19
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
218 <223> OTHER INFORMATION: Oligonucleotide
220 <400> SEQUENCE: 8
221 aggcaggcac ttcatacc 19
223 <210> SEQ ID NO: 9
224 <211> LENGTH: 20
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence

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228 <220> FEATURE:
229 <223> OTHER INFORMATION: Oligonucleotide
231 <400> SEQUENCE: 9
232 tttcgagctt ccaggttcat 20
234 <210> SEQ ID NO: 10
235 <211> LENGTH: 20
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Oligonucleotide
242 <400> SEQUENCE: 10
243 ctcccaaact ctgcctggtg 20
245 <210> SEQ ID NO: 11
246 <211> LENGTH: 20
247 <212> TYPE: DNA
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Oligonucleotide
253 <400> SEQUENCE: 11
254 cgggagccac acttcaccat 20
256 <210> SEQ ID NO: 12
257 <211> LENGTH: 20
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Oligonucleotide
264 <400> SEQUENCE: 12
265 gctcacttct gcgctgtctg 20
267 <210> SEQ ID NO: 13
268 <211> LENGTH: 20
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Oligonucleotide
275 <400> SEQUENCE: 13
276 ttccgggctc ccagagtcac 20
278 <210> SEQ ID NO: 14
279 <211> LENGTH: 20
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Oligonucleotide
286 <400> SEQUENCE: 14
287 cagaagacct gcctgatctg 20
289 <210> SEQ ID NO: 15
290 <211> LENGTH: 20
291 <212> TYPE: DNA
292 <213> ORGANISM: Artificial Sequence
294 <220> FEATURE:

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/090,090B

DATE: 12/10/2002

TIME: 08:13:38

Input Set : A:\20084yca.txt

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date